ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: M118933 Client: Alaskan Copper Works Date Received: 03/13/08 Project: PO M118933, F&BI 803130 Date Extracted: 03/14/08 Lab ID: 803130-01 x10 803130-01 x10.014 Date Analyzed: 03/14/08 Data File: Matrix: ICPMS1 Water Instrument: Units: ug/L (ppb) Operator: hr

Lower Upper Internal Standard: % Recovery: Limit: Limit: Germanium 95 60 125

Concentration
Analyte: ug/L (ppb)

Chromium 953
Nickel 1,010
Copper 725
Zinc 1,000

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: Alaskan Copper Works Date Received: Not Applicable PO M118933, F&BI 803130 Project: 03/14/08 Lab ID: 18-085 mb Date Extracted: Date Analyzed: 03/14/08 Data File: I8-085 mb.011 Matrix: Water Instrument: ICPMS1

Units: ug/L (ppb) Operator: hr

Lower Upper Internal Standard: % Recovery: Limit: Limit: Germanium 93 60 125

Analyte: Concentration ug/L (ppb)

Chromium <1

 Nickel
 <1</td>

 Copper
 <1</td>

 Zinc
 <2</td>

ENVIRONMENTAL CHEMISTS

Date of Report: 03/18/08 Date Received: 03/13/08

Project: PO M118933, F&BI 803130

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 802295-01 (Duplicate)

				Relative	
		Sample	Duplicate	Percent	Acceptance
Analyte	Reporting Unit	s Result	Result	Difference	Criteria
Chromium	ug/L (ppb)	<1	<1	nm	0-20
Nickel	ug/L (ppb)	5.05	4.69	7	0-20
Copper	ug/L (ppb)	<1	<1	nm	0-20
Zinc	ug/L (ppb)	1.23	<1	nm	0-20

Laboratory Code: 802295-01 (Matrix Spike)

			Percent			
		Spike	Sample	Recovery	Acce	ptance
Analyte	Reporting Un	its Level	Result	MS	Cri	teria
Chromium	ug/L (ppb)	20	<1	94	50-	-150
Nickel	ug/L (ppb)	20	5.05	91 b	50	-150
Copper	ug/L (ppb)	20	<1	90	50	-150
Zinc	ug/L (ppb)	50	1.23	89	50	-150

Laboratory Code: Laboratory Control Sample

		Spik	Percen e Recove		ıce
Analyte	Reporting Uni	ts Leve	l LCS	Criteria	<u>a</u>
Chromium	ug/L (ppb)	20	106	70-130	
Nickel	ug/L (ppb)	20	103	70-130	
Copper	ug/L (ppb)	20	105	70-130	
Zinc	ug/L (ppb)	50	99	70-130	

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Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- A1 More than one compound of similar molecule structure was identified with equal probablility.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte indicated may be due to carryover from previous sample injections.
- d The sample was diluted. Detection limits may be raised due to dilution.
- ds The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb The analyte indicated was found in the method blank. The result should be considered an estimate.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht The sample was extracted outside of holding time. Results should be considered estimates.
- ip Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The result is below normal reporting limits. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the compound indicated is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The pattern of peaks present is not indicative of diesel.
- y The pattern of peaks present is not indicative of motor oil.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 18, 2008



INVOICE #08ACU0318-1

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project PO M118933, F&BI 803130 - Results of testing requested by Gerry Thompson for material submitted on March 13, 2008.

FEDERAL TAX ID #(b) (6)

803130 s	ample chain of custody	ME 03-	13-08 AIS
Send Report To TERRED THOMPSON Company ALASKAN Coppen works Address (628 S. HANDER ST	PROJECT NAME/NO. Metro Self manitex	PO# M118933	Page #of
Address (028 S. HANDER ST City, State, ZIP SEATTR UA 98134 Phone # 206-571-6037 Fax # 206-382-4309	REMARKS		SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions
		ANALYSES REQU	

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ENVIRONMENTAL CHEMISTS

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March 18, 2008

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on March 13, 2008 from the Metro Self Monitor, PO M118933, F&BI 803130 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU0318R.DOC